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1 **Parallel checkpoint/restart without message logging**
Meth, K.Z.; Tuel, W.G.;
Parallel Processing, 2000. Proceedings. 2000 International Workshops on , 21-24 Aug. 2000
Pages:253 - 258

[Abstract]   [PDF Full-Text (432 KB)]   **IEEE CNF**

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2 **Skill-based micromanipulation system for assembly operation**
Zhiqi Liu; Nakamura, T.;
Micromechatronics and Human Science, 2003. MHS 2003. Proceedings of 2003 International Symposium on , 19-22 Oct. 2003
Pages:197 - 203

[Abstract]   [PDF Full-Text (468 KB)]   **IEEE CNF**

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3 **Cache cooperation for clustered disconnected computers**
Yasuda, K.;
Parallel and Distributed Systems, 2002. Proceedings. Ninth International Conference on , 17-20 Dec. 2002
Pages:457 - 464

[Abstract]   [PDF Full-Text (345 KB)]   **IEEE CNF**

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1 **A software engineering perspective on algorithmics**   ☐
Karsten Weihe
March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1

Full text available: 🗋 pdf(1.62 MB)   Additional Information: full citation, abstract, references, index terms, review

An algorithm component is an implementation of an algorithm which is not intended to be a
stand-alone module, but to perform a specific task within a large software package or even
within several distinct software packages. Therefore, the design of algorithm components must
also incorporate software-engineering aspects. A key design goal is adaptability. This goal is
important for maintenance throughout a project, prototypical development, and reuse in new,
unforseen contex ...

Keywords: algorithm engineering

2 **A composable framework for secure multi-modal access to internet services from Post-PC** ☐
devices
Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available: 🗋 pdf(340.33 KB)   Additional Information: full citation, abstract, references, index terms, review

The Post-PC revolution is bringing information access to a wide range of devices beyond the
desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice
based vehicle telematics. However, existing deployed Internet services are geared toward the
secure rich interface of private desktop computers. We propose the use of an infrastructure-
based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices
and the requirements of Internet ser ...

Keywords: internet, middleware, post-PC, security, transcoding

3 **Talking to UNIX in English: an overview of UC**   ☐
Robert Wilensky, Yigal Arens, David Chin
June 1984 **Communications of the ACM**, Volume 27 Issue 6

Full text available: 🗋 pdf(2.03 MB)   Additional Information: full citation, abstract, references, citings, index terms

UC is a natural language help facility which advises users in using the UNIX operating system.
Users can query UC about how to do things, command names and formats, online definitions of
UNIX or general operating systems terminology, and debugging problems in using commands.
UC is comprised of the following components: a language analyzer and generator, a context and
memory model, an experimental common-sense planner, highly extensible knowledge bases on

both the UNIX domain and the ...

Keyw rds: ellipsis, goal analysis, memory models, natural dialogue, reference disambiguation

4 Specification and dialogue control of visual interaction through visual rewriting systems
P. Bottoni, M. F. Costabile, P. Mussio
November 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 21 Issue 6

Full text available: pdf(886.71 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Computers are increasingly being seen not only as computing tools but more so as communication tools, thus placing special emphasis on human-computer interaction (HCI). In this article, the focus is on visual HCI, where the messages exchanged between human and computer are images appearing on the computer screen, as usual in current popular user interfaces. We formalize interactive sessions of a human-computer dialogue as a structured set of legal visual sentences, i.e., as a visual languag ...

Keywords: control automaton, dialogue control, visual languages

5 The decidability of distributed decision tasks (extended abstract)
Maurice Herlihy, Sergio Rajsbaum
May 1997 **Proceedings of the twenty-ninth annual ACM symposium on Theory of computing**
Full text available: pdf(1.68 MB)   Additional Information: full citation, references, citings, index terms

6 Probing the black box: Transforming policies into mechanisms with infokernel
Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, Nathan C. Burnett, Timothy E. Denehy, Thomas J. Engle, Haryadi S. Gunawi, James A. Nugent, Florentina I. Popovici
October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**
Full text available: pdf(365.12 KB)   Additional Information: full citation, abstract, references, citings, index terms

We describe an evolutionary path that allows operating systems to be used in a more flexible and appropriate manner by higher-level services. An infokernel exposes key pieces of information about its algorithms and internal state; thus, its default policies become mechanisms, which can be controlled from user-level. We have implemented two prototype infokernels based on the linuxtwofour and netbsdver kernels, called infolinux and infobsd, respectively. The infokernels export key abstractions as ...

Keywords: information, mechanism, policy

7 Technical reports
SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1
Full text available: pdf(5.28 MB)   Additional Information: full citation

8 A layered approach to NLP-based information retrieval
Sharon Flank
August 1998
Full text available:
pdf(724.81 KB)   Additional Information: full citation, abstract, references, citings
Publisher Site

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A layered approach to information retrieval permits the inclusion of multiple search engines as well as multiple databases, with a natural language layer to convert English queries for use by the various search engines. The NLP layer incorporates morphological analysis, noun phrase syntax, and semantic expansion based on Word-Net.

9 The acquisition and use of context-dependent grammars for English

Robert F. Simmons, Yeong-Ho Yú
December 1992 **Computational Linguistics**, Volume 18 Issue 4

Full text available: pdf(1.70 MB) Publisher Site   Additional Information: full citation, abstract, references, citings

This paper introduces a paradigm of context-dependent grammar (CDG) and an acquisition system that, through interactive teaching sessions, accumulates the CDG rules. The resulting context-sensitive rules are used by a stack-based, shift/reduce parser to compute unambiguous syntactic structures of sentences. The acquisition system and parser have been applied to the phrase structure and case analyses of 345 sentences, mainly from newswire stories, with 99% accuracy. Extrapolation from our current ...

10 The access control mechanism of a database computer (DBC)

M. Jaishankar Menon, David K. Hsiao
March 1980 **Proceedings of the fifth workshop on Computer architecture for non-numeric processing**

Full text available: pdf(1.10 MB)   Additional Information: full citation, abstract, references, index terms

The database computer (DBC) is a specialized back-end computer which is capable of managing data 1010 bytes in size and supporting known data models such as relational, network, hierarchical and attribute-based models. It is also perhaps the first database machine to have a built-in security mechanism for access control. At the outset, the security mechanism was made an integral part of the DBC design. This design philosophy not only allowed us to construct a ...

11 The keystroke-level model for user performance time with interactive systems

Stuart K. Card, Thomas P. Moran, Allen Newell
July 1980 **Communications of the ACM**, Volume 23 Issue 7

Full text available: pdf(4.62 MB)   Additional Information: full citation, references, citings

Keywords: cognitive psychology, ergonomics, human factors, human-computer interaction, human-computer interface, systems design, user model, user performance

12 Technique for automatically correcting words in text

Karen Kukich
December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available: pdf(6.23 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keyw rds: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

13 Papers: Adjectival modification in text meaning representation

Victor Raskin, Sergei Nirenburg
August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume 2**

Full text available: pdf(544.49 KB)   Additional Information: full citation, abstract, references

This work belongs to a family of research efforts, called microtheories and aimed at describing the static meaning of all lexical categories in several languages in the framework of the MikroKosmos project on computational semantics. The latter also involves other static microtheories describing world knowledge and syntax-semantics mapping as well as dynamic microtheories connected with the actual process of text analysis. This paper describes our approach to detecting and recording adjectival m ...

14 Special issue of the lexicon: Tools and methods for computational lexicology

Roy J. Byrd, Nicoletta Calzolari, Martin S. Chodorow, Judith L. Klavans, Mary S. Neff, Omneya A. Rizk
July 1987 **Computational Linguistics**, Volume 13 Issue 3-4

Full text available: pdf(2.49 MB)
Publisher Site   Additional Information: full citation, abstract, references, citings

This paper presents a set of tools and methods for acquiring, manipulating, and analyzing machine-readable dictionaries. We give several detailed examples of the use of these tools and methods for particular analyses. A novel aspect of our work is that it allows the combined processing of multiple machine-readable dictionaries. Our examples describe analyses of data from Webster's Seventh Collegiate Dictionary, the Longman Dictionary of Contemporary English, the Collins bilingual dictionaries, t ...

15 Design of LMT: a prolog-based machine translation system

Michael C. McCord
March 1989 **Computational Linguistics**, Volume 15 Issue 1

Full text available: pdf(2.36 MB)
Publisher Site   Additional Information: full citation, abstract, references, citings

LMT (logic-based machine translation) is an experimental English-to-German MT system, being developed in the framework of logic programming. The English analysis uses a logic grammar formalism, Modular Logic Grammar, which allows logic grammars to be more compact, and which has a modular treatment of syntax, lexicon, and semantics. The English grammar is written independently of the task of translation. LMT uses a syntax transfer method for translation, although the English syntactic analysis tr ...

16 Implementation of automatic differentiation tools

Christian H. Bischof, Paul D. Hovland, Boyana Norris
January 2002 **ACM SIGPLAN Notices , Proceedings of the 2002 ACM SIGPLAN workshop on Partial evaluation and semantics-based program manipulation**, Volume 37 Issue 3

Full text available: pdf(113.88 KB)   Additional Information: full citation, abstract, references, index terms

Automatic differentiation is a semantic transformation that applies the rules of differential calculus to source code. It thus transforms a computer program that computes a mathematical function into a program that computes the function and its derivatives. Derivatives play an important role in a wide variety of scientific computing applications, including optimization, solution of nonlinear equations, sensitivity analysis, and nonlinear inverse problems. We describe a simple component architect ...

Keywords: Automatic Differentiation, Component Software, Semantic Transformation, intermediate representation, source transformation

17 An imperative sentence processor for voice interactive office applications

Alan W. Biermann, Linda Fineman, Kermit C. Gilbert
October 1985 **ACM Transactions on Information Systems (TOIS)**, Volume 3 Issue 4

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Full text available: pdf(1.71 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

An imperative sentence processor that enables a user to manipulate text with connected speech and touch-graphics input is described. The processor includes capabilities to follow dialogue focus, execute a variety of imperative commands, and handle nested noun groups, pronouns, and other phenomena. A micromodel of the system, giving enough of the structure to enable the reader to observe internal mechanisms in considerable detail, is included. This processor is designed to be transportable t ...

18 Informatics: semantic processing: Exploiting a large data base by Longman

A. Michiels, J. Mullenders, J. Noël
September 1980 **Proceedings of the 8th conference on Computational linguistics**

Full text available: pdf(679.85 KB)   Additional Information: full citation, abstract, references, citings

We wish to explore some of the aspects of the exploitation of two dictionary files by LONGMAN Ltd, one for 'core' English and one for English idioms.We'll try to show the feasibility of an approach to language processing based on a lexicon, conceived of as the repository of grammatical, semantic and knowledge-of-the-world information.After giving a brief description of the computer files (Section I) we'll focus on the following points:(a)a lexical approach to grammar allows a considerable simpli ...

19 The design and implementation of hierarchical software systems with reusable components

Don Batory, Sean O'Malley
October 1992 **ACM Transactions on Software Engineering and Methodology (TOSEM),** Volume 1 Issue 4

Full text available: pdf(3.15 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

We present a domain-independent model of hierarchical software system design and construction that is based on interchangeable software components and large-scale reuse. The model unifies the conceptualizations of two independent projects, Genesis and Avoca, that are successful examples of software component/building-block technologies and domain modeling. Building-block technologies exploit large-scale reuse, rely on open architecture software, and elevate the granularity of programming to ...

Keywords: domain modeling, open system architectures, reuse, software building-blocks, software design

20 Special issue on on inductive logic programming: Learning semantic lexicons from a part-of-speech and semantically tagged corpus using inductive logic programming

Vincent Claveau, Pascale Sébillot, Cécile Fabre, Pierrette Bouillon
December 2003 **The Journal of Machine Learning Research,** Volume 4

Full text available: pdf(215.86 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes an inductive logic programming learning method designed to acquire from a corpus specific Noun-Verb (N-V) pairs---relevant in information retrieval applications to perform index expansion---in order to build up semantic lexicons based on Pustejovsky's generative lexicon (GL) principles (Pustejovsky, 1995). In one of the components of this lexical model, called the qualia structure, words are described in terms of semantic roles. For example, the <em&g ...

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